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### **EUROPEAN PATENT APPLICATION**

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(11)

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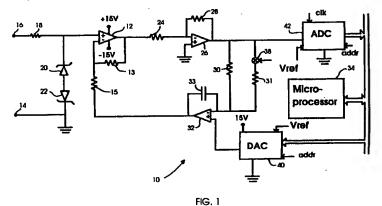
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# (54) Method and apparatus for phase related cardiac defibrillation

(57) An implantable cardioverter/defibrillator and method for its use are disclosed. A sensing electrode (14, 16) provides an ECG signal to the defibrillator, this signal is amplified (12, 26) and evaluated for the presence of a tachyarrhythmia. The phase of the ECG signal is sensed during a detected fibrillation or tachycardia and this determines the phase of the stimulating output

signals. The ECG may be continously sensed during the application of the defibrillating output and each output is held constant until a threshold crossing of the ECG is detected, whereupon the defibrillating output is changed





## PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention EP 94 11 2555 shall be considered, for the purposes of subsequent proceedings, as the European search report

Category	Citation of document with of relevant p	indication, where appropriate, passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CL6)
A	US 4 998 531 A (CA	RDIAC PACEMAKERS, INC.)	1-7, 12-14, 17-21	A61N1/39
	* the whole docume	nt *		
A	US 4 967 747 A (VE	NTRITEX, INC.)	1,2,5-7, 9,10,13, 14,16, 20,21	
	* the whole docume	nt *		
A,P	EP 0 589 251 A (CA	RDIAC PACEMAKERS, INC.)	1,3,7,8, 13,15, 18-20	
	* column 4, line 5	- column 9, line 30 *		
				TECHNICAL FIELDS SEARCHED (Int. Cl. 6)
				A61N
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	MPLETE SEARCH			
the provisi out a mea	loas of the European Patent Conven	t European patent application does not comply tion to such an extent that it is not possible to art on the basis of some of the claims.	with carry	
Claims sea	arched incompletely :			
Claims no	t searched :			
Reason for	r the limitation of the search:			
see	sheet C			
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	ATEGORY OF CITED DOCUME	3 April 1997		ercier, D
	rticularly relevant if taken alone rticularly relevant if taken alone rticularly relevant if combined with another cument of the same category  E: ecument cited in the application L: document cited for other reasons		ched on, or	
X : parti Y : parti docu	cularly relevant if combined with an	other D : document cited in L : document cited fo	the application rother reasons	***************************************



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EP 94 11 2555 - C -

### **INCOMPLETE SEARCH**

The Search Division considers that the present European patent application does not comply with the provisions of the European Patent Convention to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of some of the claims.

Claims searched completely:

1-21

Claims searched incompletely:

Claims not searched:

22-27

Reason for the limitation of the search: Method for treatment of the human or animal body by surgery or therapy (see Art. 52(4) of the European Patent Convention).

EPO Form

Supplementary Sheet C (1996)